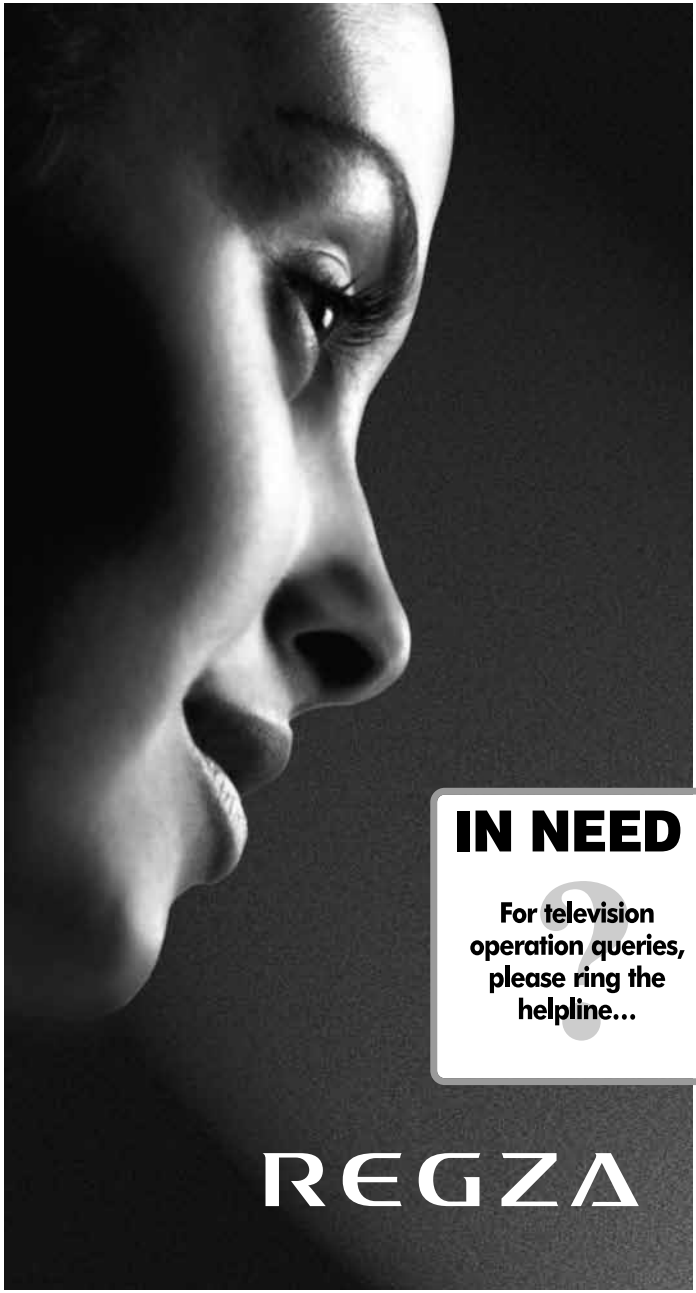
TOSHIBA
Leading Innovation »»



XV55*
ANALOGUE
Series

IN NEED OF HELP

For television operation queries, please ring the helpline...

Toshiba customer helpline
0115 976 6958

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Safety Precautions

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken to obtain the best results and for safety to be assured. Please read the points below for your own safety. They are of a general nature, intended to help with all electronic consumer products and some points may not apply to the goods you have just purchased.

Air Circulation

Leave more than 10cm clearance around the television to allow adequate ventilation. This will prevent overheating and possible damage to the television. Dusty places should also be avoided.

Heat Damage

Damage may occur if the television is left in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity. Place in a location where the temperature remains between 5°C (41°F) min. and 35°C (94°F) max.

Mains Supply

The mains supply required for this equipment is 220-240v AC 50/60Hz. Never connect to a DC supply or any other power source. DO ensure that the television is not standing on the mains lead.
DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in this plug is approved by ASTA or BSI to *BS1362*. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted.
IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

DO NOT REMOVE ANY FIXED COVERS AS THIS WILL EXPOSE DANGEROUS AND 'LIVE' PARTS.

THE MAINS PLUG IS USED AS A DISCONNECTING DEVICE AND THEREFORE SHOULD BE READILY OPERABLE.

Do not

DO NOT obstruct the ventilation openings of the equipment with items such as newspapers, tablecloths, curtains, etc. Overheating will cause damage and shorten the life of the equipment.

DO NOT allow electrical equipment to be exposed to dripping or splashing or objects filled with liquids, such as vases, to be placed on the equipment.

DO NOT place hot objects or naked flame sources, such as lighted candles or nightlights on, or close to equipment. High temperatures can melt plastic and lead to fires.

DO NOT use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturers' approved stand, bracket or legs with the fixings provided according to the instructions.

DO NOT leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off by withdrawing the plug, make sure your family know how to do this. Special arrangements may need to be made for people with disabilities.

DO NOT continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

WARNING – excessive sound pressure from earphones or headphones can cause hearing loss.

ABOVE ALL – NEVER let anyone, especially children, push or hit the screen, push anything into holes, slots or any other openings in the case.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

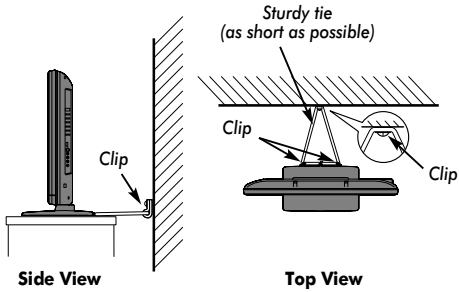
Installation and important information

Where to install

Locate the television away from direct sunlight and strong lights, soft, indirect lighting is recommended for comfortable viewing. Use curtains or blinds to prevent direct sunlight falling on the screen.

Place on a sturdy platform, the mounting surface should be flat and steady. It should be secured to the wall with a sturdy tie using the clip on the back of the stand, or secured to the platform using the fixing strap located underneath the table top stand, this will prevent it from falling over.

The LCD display panels are manufactured using an extremely high level of precision technology, however sometimes some parts of the screen may be missing picture elements or have luminous spots. This is not a sign of a malfunction.



Make sure the television is located in a position where it cannot be pushed or hit by objects, as pressure will break or damage the screen, and that small items cannot be inserted into slots or openings in the case.

Please take note

EXCLUSION CLAUSE

Toshiba shall under no circumstances be liable for loss and/or damage to the product caused by:

i) fire;
ii) earthquake;
iii) accidental damage;
iv) intentional misuse of the product;
v) use of the product in improper conditions;
vi) loss and/or damage caused to the product whilst in the possession of a third party;
vii) any damage or loss caused as a result of the owner's failure and/or neglect to follow the instructions set out in the owner's manual;
viii) any loss or damage caused directly as a result of misuse or malfunction of the product when used simultaneously with associated equipment;

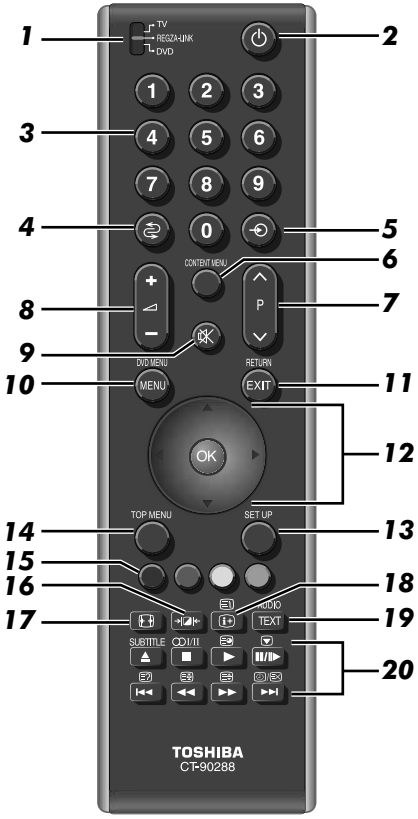
Furthermore, under no circumstances shall Toshiba be liable for any consequential loss and/or damage including but not limited to the following, loss of profit, interruption of business, the loss of recorded data whether caused during normal operation or misuse of the product.

NOTE: A Toshiba wall bracket or stand, where available, must be used. If a non Toshiba wall bracket or stand is used the product's BEAB approval will become void and the equipment is then used at the consumers own risk.

- If stationary images generated by 4:3 broadcasts, text services, channel identification logos, computer displays, video games, on screen menus, etc. are left on the television screen for any length of time they could become conspicuous, it is always advisable to reduce both the brightness and contrast settings.
- Very long, continuous use of the 4:3 picture on a 16:9 screen may result in some retention of the image at the 4:3 outlines, this is not a defect of the LCD TV and is not covered under the manufacturers warranty. Regular use of other size modes (eg: Superlive) and varying the "side panel" brightness (if available on the model) will prevent permanent retention.

The remote control

Simple at-a-glance reference of your remote control.



1 To select device mode (T/R/D)*

2 For On/Standby mode (T/R/D)

3 Number buttons (T/R/D)

4 To return to the previous programme (T)

5 To select external input sources (T)
To select line input (R/D)

6 To display Contents menu (R)

7 To change programme positions (T/R)
To change text pages (T)

8 To alter the TV volume (T/R/D)

9 To mute the TV sound (T/R/D)

10 On-screen Menus (T)
DVD Menus (R/D)

11 To exit Menus (T)
To return to previous Menu (R/D)

12 When using menus the arrows move the cursor on the screen up, down, left or right. (OK) to confirm your selection (T/R/D)

13 To access Setup menu (R/D)

14 To access Top Menu (R/D)

15 Text control buttons (T)
To work interactive service control on device (R)

16 Selectable picture preferences (T)

17 Widescreen viewing (T)

18 To display on-screen information (T/R/D)
To access index page in Text mode (T)

19 To call up text services (T)

20 **When in TV mode:**

(⏻)/(⏏)	Time display
(▼)	Still pictures
(◯)Ⅰ/Ⅱ	Stereo/bilingual transmissions
SUBTITLE	No function on this model

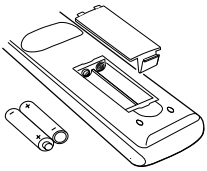
When in Text mode:

(⏏)	To access Sub pages
(?)	To reveal concealed text
(✱)	To hold a wanted page
(↕)	To enlarge text display size
(⏻)/(⏏)	To select a page whilst viewing a normal picture

REGZA-LINK or DVD mode:
press ⏯ to PAUSE/STEP
press ▶ to PLAY
press ◀◀ to REWIND
press ▶▶ to FAST FORWARD
press ⏏ to EJECT
press ■ to STOP
press ⏮ to SKIP-REWIND
press ⏭ to SKIP-FORWARD

* T=TV mode, R=REGZA-LINK mode, D=DVD mode

Inserting batteries and effective range of the remote



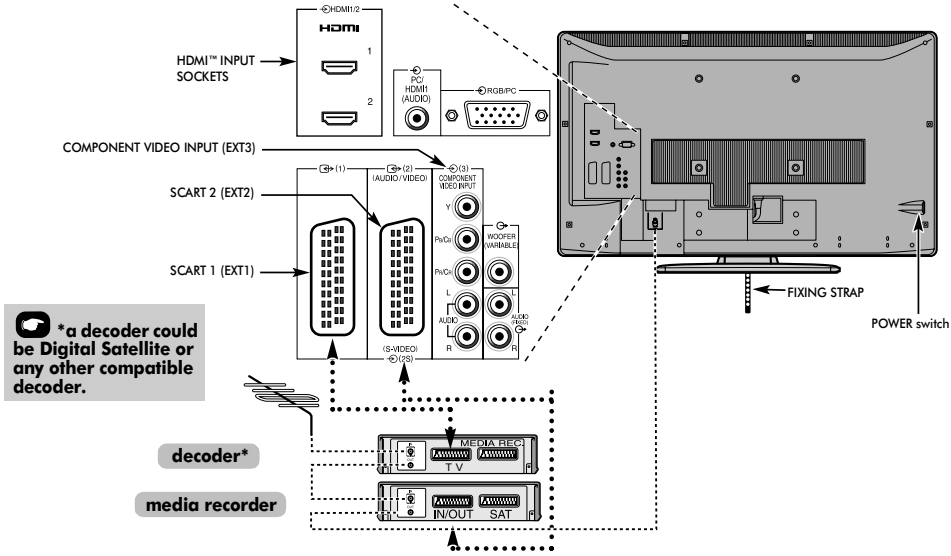
Remove the back cover to reveal the battery compartment and make sure the batteries are inserted the right way round. Suitable battery types for this remote are AAA, IEC R03 1.5V.

Do not combine a used, old battery with a new one or mix battery types. Remove dead batteries immediately to prevent acid from leaking into the battery compartment. Dispose of them in a designated disposal area. **Warning:** batteries must not be exposed to excessive heat such as sunshine, fire or the like.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the television. If the operating range becomes reduced the batteries may need replacing.

Connecting external equipment

Before connecting any external equipment, turn off all main power switches. If there is no switch remove the mains plug from the wall socket.



Aerial cables: -

Connect the aerial to the socket on the rear of the television. If you use a decoder* and/or a media recorder it is essential that the aerial cable is connected through the decoder and/or through the media recorder to the television.

SCART leads: . . . . . .

Connect the video recorder **IN**/**OUT** socket to the television. Connect the decoder **TV** socket to the television. Connect the media recorder **SAT** socket to the decoder **MEDIA REC**. socket.

Before running **Auto tuning** put your decoder and media recorder to **Standby**.

The phono sockets alongside the COMPONENT VIDEO INPUT sockets will accept L and R audio signals.

HDMI™ (High-Definition Multimedia Interface) is for use with a DVD, decoder or electrical equipment with digital audio and video output. It is designed for best performance with 1080i and 1080p high-definition video signals but will also accept and display VGA, 480i, 480p, 576i, 576p and 720p signals.

NOTE: Although this television is able to connect to HDMI equipment it is possible that some equipment may not operate correctly.

A wide variety of external equipment can be connected to the back of the television, therefore the relevant owners manuals for *all* additional equipment must be referred to.

We recommend *SCART 1* for a decoder and *SCART 2* for a media recorder.

If connecting S-VIDEO equipment, set the **INPUT** for **EXT2**. See *page* 27.

If the television automatically switches over to monitor external equipment, return to normal television by pressing the desired programme position button. To recall external equipment, press ⊕ to select between **EXT1**, **EXT2**, **EXT3**, **HDMI1**, **HDMI2**, **HDMI3** or **PC**.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

Connecting an HDMI™ or DVI device to the HDMI input

The HDMI input on your television receives digital audio and uncompressed digital video from an HDMI source device, or uncompressed digital video from a DVI (Digital Visual Interface) source device.

This input is designed to accept HDCP (High-Bandwidth Digital-Content Protection) program material in digital form from EIA/CEA-861-D–compliant [1] consumer electronic devices (such as a set-top box or DVD player with HDMI or DVI output). For acceptable video signal formats, see page 37.

NOTE:

- Some early HDMI equipment may not work properly with your latest HDMI TV, due to the adoption of a new standard. Please unplug your HDMI cable first and then try setting the **Lip Sync** to "**Off**". Your early HDMI source should operate properly with your television. See page 28.
- Supported Audio format: Linear PCM, sampling rate 32/44.1/48kHz.

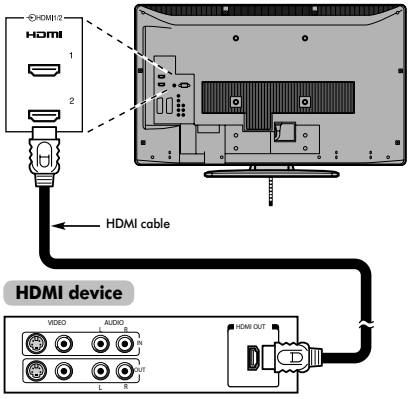
To connect an HDMI device

Connect an HDMI cable (type A connector) to the HDMI terminal.

For proper operation, it is recommended that you use an HDMI cable with the HDMI Logo (HDMI).

- If your HDMI connection is capable of 1080p and/or your television is capable of refresh rates greater than 60Hz, you will need a Category 2 cable. Conventional HDMI/DVI cable may not work properly with this mode.
- HDMI cable transfers both video and audio. Separate analog audio cables are not required (see illustration).
- See "HDMI1 audio" on page 28.

The HDMI3 terminal is located at the side of the television.

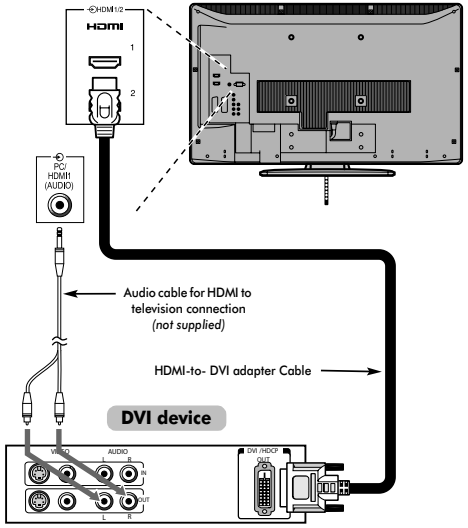


To view the HDMI device video, press the ⊕ to select HDMI1, HDMI2 or HDMI3 mode.

To connect a DVI device

Connect an HDMI-to-DVI adapter cable (HDMI type A connector) to HDMI1 terminal and audio cables to the PC/HDMI1 (AUDIO) socket (see illustration).

- The recommended HDMI-to-DVI adapter cable length is 6.6 ft (2m).
- An HDMI-to-DVI adapter cable transfers video only. Separate analog audio cables are required.
- See "HDMI1 audio" on page 28.



NOTE:

To ensure that the HDMI or DVI device is reset properly, it is recommended that you follow these procedures:

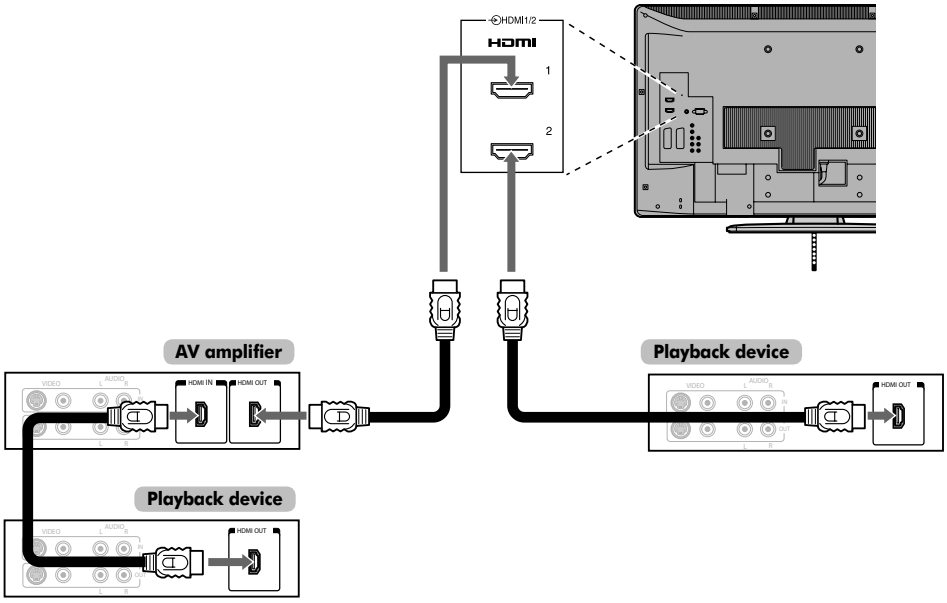
- When turning on your electronic components, turn on the television first, and then the HDMI or DVI device.
- When turning off your electronic components, turn off the HDMI or DVI device first, and then the television.

[1] EIA/CEA-861-D compliance covers the transmission of uncompressed digital video with high-bandwidth digital content protection, which is being standardized for reception of high-definition video signals. Because this is an evolving technology, it is possible that some devices may not operate properly with the television.

HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

REGZA-LINK connection

You can control the basic functions of connected audio/video devices using the televisions remote control if you connect a REGZA-LINK compatible AV amplifier or playback device. For an explanation of setup and operations, see pages 29–30.



For the setup shown above, you will need three HDMI cables (see page 9).

NOTE:

- If several devices are connected, the REGZA-LINK feature may not operate properly.
- For proper operation, it is recommended that you use HDMI cables with the HDMI Logo (HDMI)
- The HDMI3 terminal is located at the side of the television.
- This function is available with one PC and one AV amplifier. It may not operate properly when a PC connected via an AV amplifier.

Before controlling the device(s):

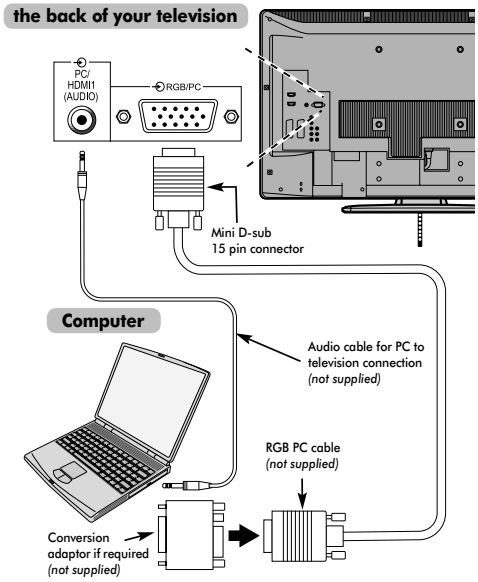
- After completing the above connections, set the REGZA-LINK menu as you desire (see page 29).
- The connected devices must also be set. For details, see the operation manual for each device.
- The REGZA-LINK feature uses CEC technology as regulated by the HDMI standard.
- This feature is limited to models incorporating Toshiba's REGZA-LINK. However, Toshiba is not liable for those operations. Refer to individual instruction manuals for compatibility information.

Connecting a computer

With either the RGB/PC or HDMI connection, you can watch your computer's display on the television and hear the sound from the televisions speakers.

To connect a PC to the RGB/PC terminal

When connecting a PC to the RGB/PC terminal on the television, use an analog RGB (15-pin) computer cable and a PC audio cable to the PC/HDMI1 (AUDIO) socket. Select **PC** from the **PC/HDMI1 audio** options in the **AV connection** menu located in the **SET UP** menu.


the back of your television
PC/ HDMI1 (AUDIO)
RGB/PC
Mini D-sub 15 pin connector
Computer
Audio cable for PC to television connection (not supplied)
RGB PC cable (not supplied)
Conversion adaptor if required (not supplied)

To use a PC, set the monitor output resolution on the PC before connecting it to the television. For acceptable PC signal formats, see page 36.

To display the optimum picture, use the PC setting feature (see page 26).

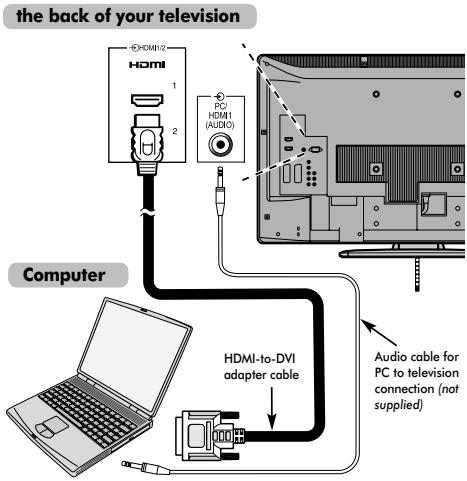
NOTE:

- The PC audio input terminals on the television are shared with the HDMI1 analog audio input terminals (see page 28).
- Some PC models cannot be connected to this television.
- An adapter is not needed for computers with a compatible mini D-sub15-pin terminal.
- Depending on the DVD's title and the specifications of the PC on which you are playing the DVD-Video, some scenes may be skipped or you may not be able to pause during multi-angle scenes.
- A band may appear at the edges of the screen or parts of the picture may be obscured. This is due to scaling of the picture by the set, it is not a malfunction.
- When PC input mode is selected some of the television's features will be unavailable e.g. **Manual setting** in the **SET UP** menu, **Colour**, **Tint**, **DNR** and **Black/White Level** in the **Picture settings** menu.
- If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.

To connect a PC to the HDMI terminal

When connecting a PC to the HDMI terminal on the television, use an HDMI-to DVI adapter cable and analog audio cables.

If connecting a PC with an HDMI terminal, use an HDMI cable (type A connector). Separate analog cables are not necessary (see page 9).



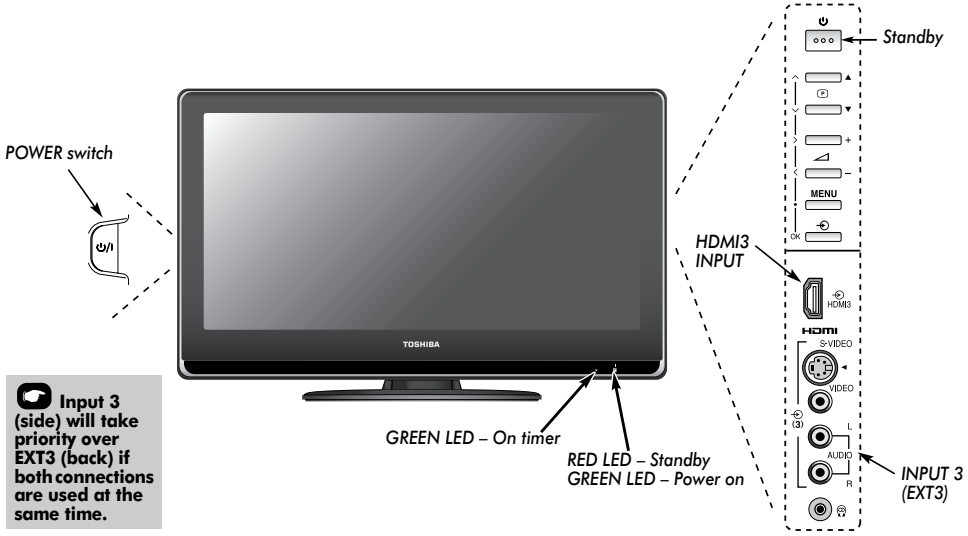
For acceptable PC and video signal formats, see page 37.

NOTE:

- The edges of the images may be hidden.
- If connecting a certain PC model that signal is particular, the PC signal may not be detected correctly.

Controls and input connections

A wide variety of external equipment can be connected to the input sockets on the side of the television. *Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.*



Input 3 (side) will take priority over EXT3 (back) if both connections are used at the same time.

Switching on

If the RED LED is unlit check that the mains plug is connected to the power supply and press the ⏻/I (POWER) button on the left side of the television to switch the television on. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control. To view the television press ⏻ again. The picture may take a few seconds to appear.

Using the remote control

To set up the television you will now need to use the on-screen menus. Press MENU on the remote control to see the menus.

The menu bar at the top of the screens will show six different topics shown in symbols. As each symbol is selected by pressing ◀ or ▶ on the remote control, its respective options will appear below.

To use the options, press ▲ and ▼ on the remote control to move up and down through them and OK, ◀ or ▶ to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the controls and connections

To alter the volume press – ◿ +.

To alter the programme position press ▼ P ▲.

Press **MENU** and <, >, ^ or v to control the sound and picture options.

Press **MENU** to finish.

An S-video cable provides better picture performance than a composite video cable. If you connect an S-video cable to **EXT3**, be sure to disconnect the standard (composite) video cable or the picture performance will be unacceptable.

To select the external input, press ⏎ until the appropriate input source is selected as described on *page 27*.

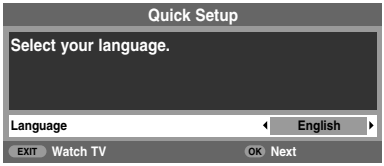
Please always refer to the owner's manual of the equipment to be connected for full details.

Tuning the television

Before switching on the television put your decoder and media recorder to **Standby** if they are connected.
To set up the television use the buttons on the remote control as detailed on page 6.

Quick Setup

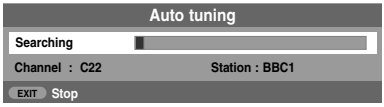
1 Connect the television to the mains power and press the ⏻ button. The **Quick Setup** screen will appear.



2 Using ◀ or ▶ select your **language**, then press (OK).

3 Then press ◀ or ▶ to select your **country** and press (OK).

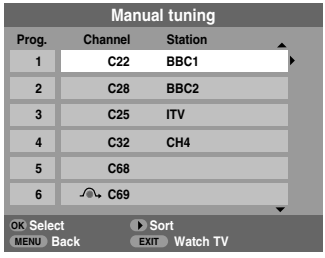
4 To start **Auto tuning** press (OK).



The search will begin for all available stations.
The slide bar will move along the line as the search progresses.

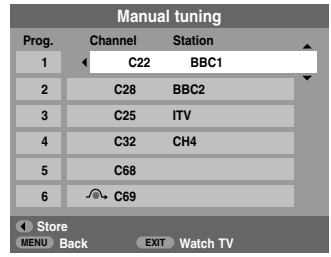
You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using **Manual tuning** which will appear on the screen.



5 With the list of stations now showing use ▲ or ▼ to highlight the station you want to *move* and press ▶.

The selected station will be moved to the right of the screen.



6 Use ▲ or ▼ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

7 Press ◀ to store your move.

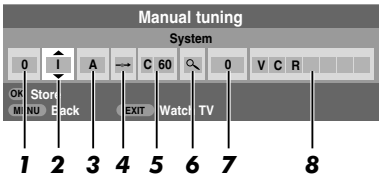
Repeat as necessary, then press (EXIT).

If the television cannot be connected to a media recorder/decoder with a SCART lead or if a station on another ***system*** is required, use **Manual tuning** to allocate a programme position, *see page* 14.

Manual tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

Use ◀ and ▶ to move across the screen and select any of these Manual Tune options.



1 **Programme:**

The number to be pressed on the remote control.

2 **System:**

Specific to certain areas.

3 **Colour system:**

Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.

4 **Programme skip:**

↷ means nothing has been stored or the facility to skip the channel is ON. See page 15.

5 **Channel:**

The channel number on which a station is being broadcast.

6 **Search:**

Search up and down for a signal.

7 **Manual fine tuning:**

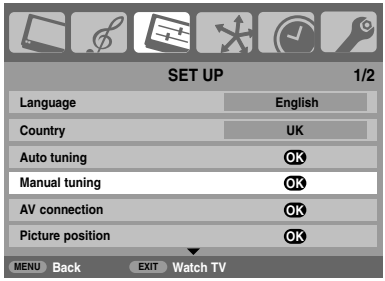
Only used if interference/weak signal is experienced. See page 33.

8 **Station:**

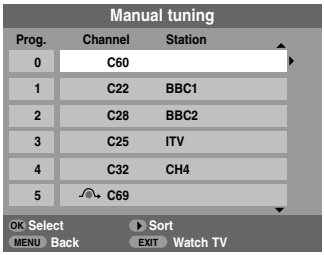
Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

1 Press (MENU) and using ◀ or ▶ select the **SET UP** menu, with ▼ highlight **Manual tuning**, press (OK) to select.

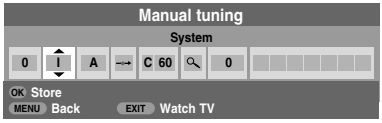


2 Use ▲ or ▼ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



Different **Channel** numbers may be displayed.

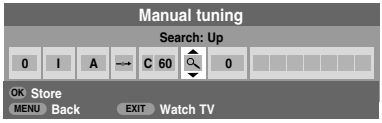
3 Press (OK) to select. If the programme is skipped, **Programme skip** must be removed before storing.



4 Press ▶ to select **System** and use ▲ or ▼ to change if required.

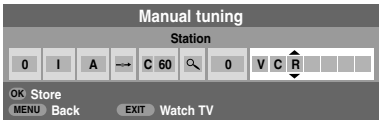
5 Then press ▶ to select **Search**.

6 Press ▲ or ▼ to begin the search. The search symbol will flash.



7 Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.

8 When your media recorder signal is found, press ▶ to move along to **Station**. With ▲, ▼, ◀ and ▶ put in the required characters, e.g. **VCR**.



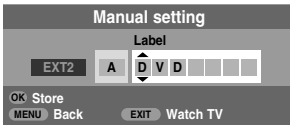
9 Press (OK) to store.

10 Repeat for each ***programme position*** you want to tune or, press (MENU) to return to the list of channels and select the next number to tune.

11 Press (EXIT) when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊖ to select ⊖2, then select **Manual setting** from the **SET UP** menu.

13 Press ▶ to select **Label** then using ▲, ▼, ◀ and ▶ put in the required characters.



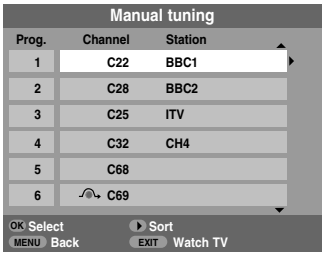
PLEASE NOTE

This television has direct channel entry if the channel numbers are known.
Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then the **Channel** number. Press (OK) to store.

Programme skip

To prevent certain programmes from being viewed, the programme position can be skipped. The remote control must be removed as the channels will still be available using the number buttons. Programmes can then be watched as normal using the controls on the television, but the television will not show the skipped programme position.

1 Select **Manual tuning** from the **SET UP** menu.



2 Use ▲ or ▼ to highlight the programme position to be skipped and press (OK) to select.

3 Press ▶ to select **Programme skip**.

4 Use ▲ or ▼ to turn **Programme skip** on.
Press (OK).

on the screen indicates a skipped programme position.

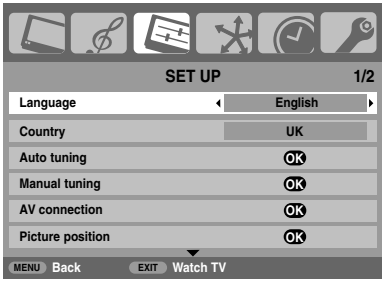
5 Press (MENU) and repeat from ***Step 2*** or press (EXIT).

Each programme position has to be *individually* selected. To turn **Programme skip** off, repeat the procedure for each position.

Skipped programme positions ***cannot*** be selected by **P∧** and **P∨** or by the controls on the television, but ***can*** still be accessed by the number buttons on the remote control.

Using Auto tuning

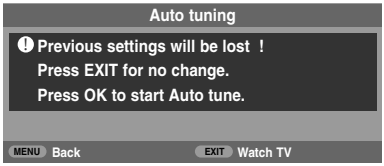
1 To set up the television using **Auto tuning**, press (MENU) and use ◀ or ▶ to select the **SET UP** menu.



2 Press ▼ to highlight **Language** and ◀ or ▶ to select.

3 Using ▼ highlight **Country**, then ◀ or ▶ to select. The television will now tune the stations for your country.

4 Press ▼ to highlight **Auto tuning**, then press (OK).



NOTE: If you have selected "**Others**" for the **Country** field in Step 3, select the optimum broadcasting system (B/G, I, D/K or L).

5 To start **Auto tuning** press (OK).

You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed using **Manual tuning**, *see page 14*.

General controls

Selecting programme positions

To select a programme position use the numbered buttons on the remote control.

Programme positions can also be selected using **P∧** and **P∨**.

To revert to the previous programme position press ⇄.

To display on-screen information *i.e.* programme position, input mode or stereo/mono signal, press i+. Press again to cancel.

The Time Display

The time display facility allows the current (text service) time to be seen on the television screen.

Press 🕘/TEXT whilst watching a normal television broadcast to see a time display from the broadcaster. It will remain on screen for about 5 seconds.

Stereo and Bilingual transmissions

If stereo or dual language broadcasts are transmitted the word Stereo or Dual will appear on the screen each time programme positions are changed, disappearing after a few seconds. If the broadcast is not in stereo the word Mono will appear.

Stereo... Press ◯I/II to select **Stereo** or **Mono**.

Bilingual... Bilingual transmissions are rare. If they are transmitted the word **Dual** will display. Choose the required programme number and if the word **Dual** appears press ◯I/II to select **Dual 1**, **Dual 2** or **Mono**.

Sound controls

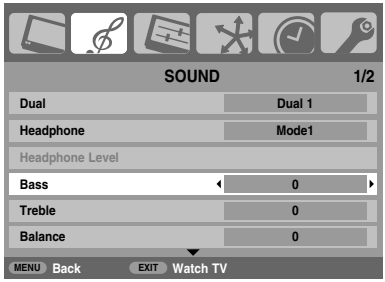
Volume controls and mute sound

Volume
Press + or − to adjust the volume.

Sound Mute
Press 🔇 once to turn the sound off and again to cancel.

Bass, Treble and Balance

1. Press MENU and ◀ or ▶ to select **SOUND**.



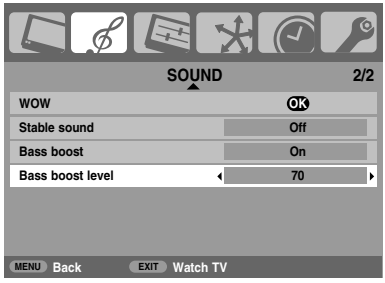
2. Press ▼ to highlight **Bass**, **Treble** or **Balance** and ◀ or ▶ to change the setting.

Bass boost

Bass boost *enhances the depth of the sound on the TV speakers. The difference will only be noticeable on sound with a strong bass.*

1. In the **SOUND** menu press ▼ to highlight **Bass boost**. Use ◀ or ▶ to select **On**.

2. Then press ▼ to highlight **Bass boost level** and using ◀ or ▶ adjust to suit your preference.



When an active Super Woofer is connected to the Woofer Out connection on the back of the television, select **AV connection** in the **SET UP** menu, press ▼ to highlight **Woofer** and using ◀ or ▶ select **External**. (See 'Input Selection and AV Connections' *section*).

SRS WOW® sound effects

***SRS WOW**® is a suite of audio effects which use the stereo signals being broadcast to produce enhanced sound from the television's speakers. If mono sound is broadcast only TruBass will be available.*

***SRS 3D**® gives a rich sound experience, **SRS FOCUS**® concentrates the sound and gives the effect of it coming from the centre of the television, **SRS TruBass**® enhances the lower bass frequencies.*

1. Press MENU and select the **SOUND** menu.
2. Use ▲ or ▼ to highlight **WOW** then press OK.

3. Press ▼ to highlight **SRS 3D** and using ◀ or ▶ select between **On** or **Off**.
4. Then press ▼ to highlight **FOCUS** and press ◀ or ▶ to select between **On** or **Off**.
5. Highlight **TruBass** and use ◀ or ▶ to select **Off**, **Low** or **High** to suit your preference.

   NOTE: This feature is not available through headphones.

Dual

*If a programme or film is being broadcast with a soundtrack in more than one language, the **DUAL** feature allows selection between them.*

1. Press MENU and select the **SOUND** menu.
2. Use ▼ to highlight **Dual** then press ◀ or ▶ to choose between **Dual 1** or **Dual 2**.

Stable sound®

*The **Stable Sound** feature limits high volume levels on the TV speakers, preventing the extreme changes in volume that can occur when channels are changed or a programme switches to a commercial.*

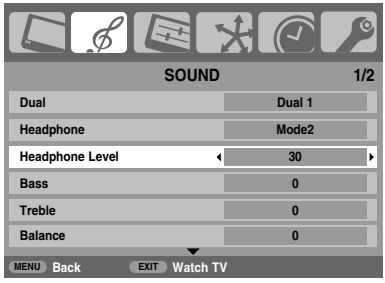
1. Select the **SOUND** menu.
2. Use ▼ to highlight **Stable sound** then press ◀ or ▶ to select **On** or **Off**.

Headphone Mode

*This setting is used to set the sound output while connecting the headphone. You can select either **Mode1** or **Mode2**.*

Headphone mode	Headphone	Speakers
Mode1	Sound comes out (🔊 – + is available.)	No sound
Mode2	Sound comes out (Headphone level menu is available.)	Sound comes out (🔊 – + is available.)

1. In the **SOUND** menu, press ▼ to highlight **Headphone** then press ◀ or ▶ to select **Mode1** or **Mode2**.
2. If you select **Mode2**, then highlight **Headphone Level** and using ◀ or ▶ to adjust the headphone sound.

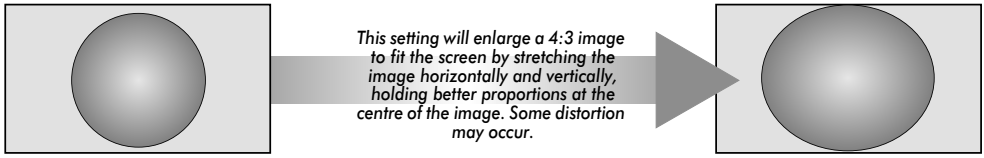


SRS WOW *WOW, SRS and ● symbol are trademarks of SRS Labs, Inc. WOW technology is incorporated under license from SRS Labs, Inc.*

Widescreen viewing

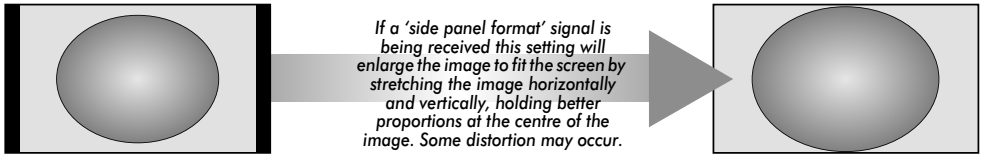
Depending on the type of broadcast being transmitted, programmes can be viewed in a number of formats. Press ⛶ repeatedly to select between **4:3**, **Super Live 1**, **Cinema 1**, **Subtitle**, **14:9**, **Wide**, **Super Live 2**, **Cinema 2**, **Exact Scan** and **Native**.

SUPER LIVE 1



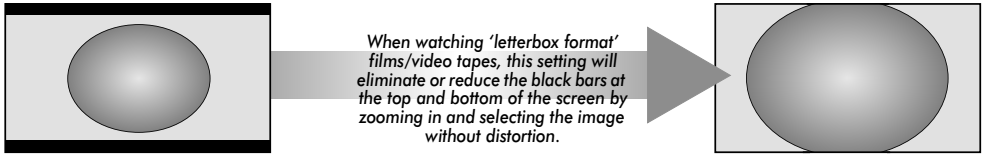
This setting will enlarge a 4:3 image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.

SUPER LIVE 2



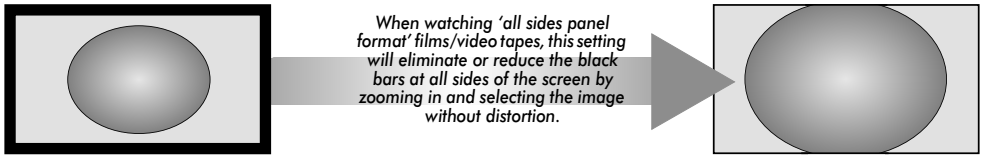
If a 'side panel format' signal is being received this setting will enlarge the image to fit the screen by stretching the image horizontally and vertically, holding better proportions at the centre of the image. Some distortion may occur.

CINEMA 1



When watching 'letterbox format' films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.

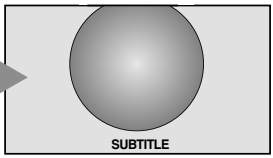
CINEMA 2



When watching 'all sides panel format' films/video tapes, this setting will eliminate or reduce the black bars at all sides of the screen by zooming in and selecting the image without distortion.

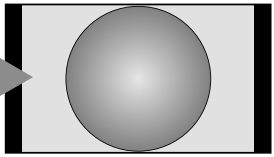
SUBTITLE

When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.



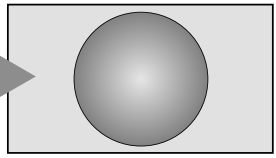
14:9

Use this setting when watching a 14:9 broadcast.



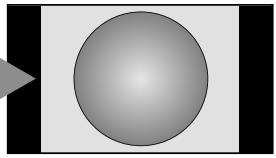
WIDE

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) black bars may be visible on the top and bottom of the screen.



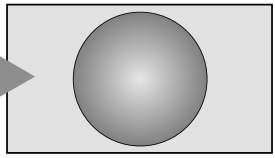
4:3

Use this setting to view a true 4:3 broadcast.



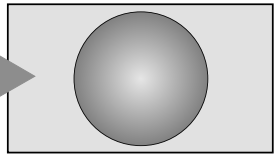
EXACT SCAN

Use this setting when watching a 1080 source, it will display the image as transmitted without scaling or cropping the picture. This option is only available when watching a 1080 source.



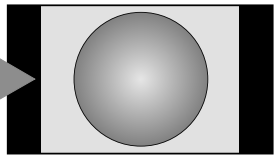
Native

When using a PC connected via HDMI this setting will show the picture without over scan, i.e. WYSIWYG. This option is only available when watching video signal source via HDMI.



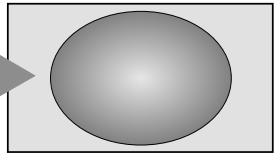
PC Normal

When using a PC connected via HDMI or PC terminal, this setting will show the picture without over scan, i.e. WYSIWYG. This option is only available when watching PC signal source via HDMI or PC terminal.



PC Wide

When using a PC connected via HDMI or PC terminal, this setting will show the picture without over scan and side panel. This option is only available when watching PC signal source via HDMI or PC terminal.



Press ⊞ and a list of the widescreen formats will appear on screen.
Use ▲ and ▼ to highlight the required format and OK to select.

Exact Scan	or	PC Normal
Native		PC Wide
Wide		
Super Live 2		
Cinema 2		
4:3		
Super Live 1		
Cinema 1		
Subtitle		
14:9		

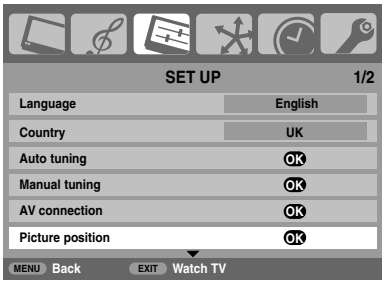
Using the special functions to change the size of the displayed image (i.e. changing the height/width ratio) for the purposes of public display or commercial gain may infringe on copyright laws.

Picture controls

Picture position

The picture position may be adjusted to suit personal preference and can be particularly useful for external inputs.

1 In the **SET UP** menu press ▼ until **Picture position** is highlighted.

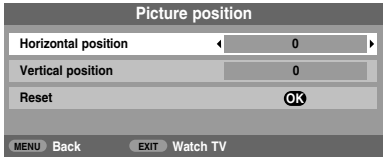


2 Press OK to view the options available for the picture format that has been selected.

3 Press ▲ and ▼ to select an option, then ◀ or ▶ to adjust the settings.

The options alter depending on the widescreen format chosen and when viewing connected equipment.

In **Cinema 2**:

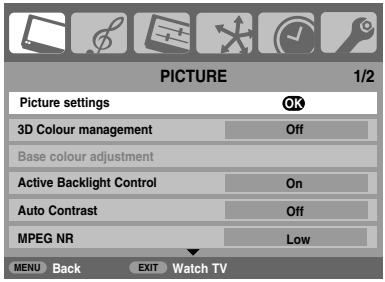


To return to the original factory settings select **Reset** in the **Picture position** menu and press OK.

Backlight

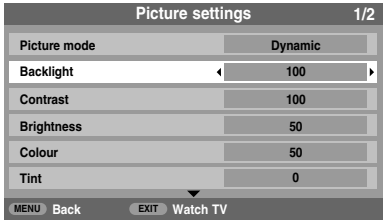
Adjusting the **Backlight** *can improve the clarity of the screen when viewing.*

1 In the **PICTURE** menu press ▼ to select **Picture settings**, then press OK.



2 In the **Picture settings** menu press ▼ to select **Backlight**.

3 Press ◀ or ▶ to adjust.



Picture preferences

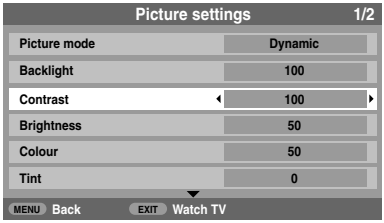
This television offers the choice of personalising the picture style. Press →|◪|← to view the different styles available:

Dynamic, **Standard**, **Mild**, **Movie**, **Game*** *and* **PC (***or* **PC Fine)**** *are preset options and effect many features/settings within the television. You can customise current picture mode settings as desired. For example, while selecting "***Dynamic***," if you change the following items, such as* **Backlight**, **Contrast**, **Brightness**, **Colour**, **Tint**, **Sharpness**, **Black/White Level**, **Cinema mode** *and* **Colour Temperature**, *your new setting is stored as "***Dynamic-user***."*

* **Game** mode is available in the external input mode (other than aerial input). When you select Game mode, the suitable widescreen formats will be selected.

** **PC** mode is available in the RGB/PC input mode or HDMI PC format mode.
PC Fine mode is only available in TOSHIBA' s PC (REGZA-LINK type) input and the **Enable REGZA-LINK** menu **On** (☞ page 29).

1 Select **Picture settings** from the **PICTURE** menu.

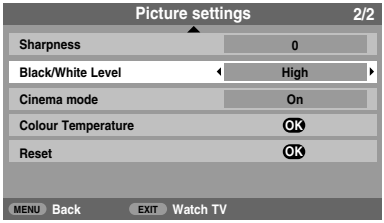


2 Use ◀ or ▶ to adjust the **Contrast**, **Brightness**, **Colour**, **Tint** and **Sharpness**.

Black/White Level

Black/White Level *increases the strength of dark areas of the picture which improves the definition.*

1 In the **Picture settings** menu press ▼ until **Black/White Level** is highlighted.



2 Press ◀ or ▶ to select between **Low**, **Middle**, **High** and **Off**. The effect depends on the broadcast and is most noticeable on dark colours.

Cinema mode

If there are lines or jagged edges in the film or programme being viewed, selecting **Cinema mode** *can help correct this by smoothing out the picture.*

1 In the **Picture settings** menu press ▼ to select **Cinema mode**.

2 Press ◀ or ▶ to select **On** or **Off**.

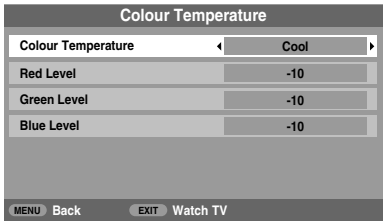
NOTE: When a DVD with subtitles is being played this mode may not work correctly.

Colour temperature

Colour Temperature *increases the 'warmth' or 'coolness' of a picture by increasing the red or blue tint.*

1 In the **Picture settings** menu press ▼ until **Colour Temperature** is highlighted and press OK.

2 Press ◀ or ▶ to select between **Natural**, **Warm** and **Cool** to suit your preference.



3 Press ▼ to select either **Red Level**, **Green Level**, or **Blue Level** then press ◀ or ▶ to adjust the settings.

Reset

To reset the current **Picture mode** *setting to the default values.*

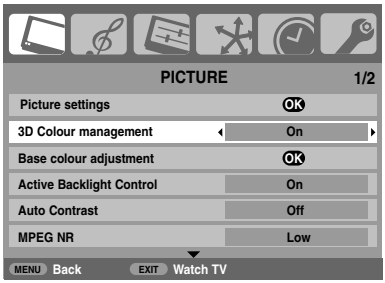
1 In the **Picture settings** menu press ▼ to select **Reset**.

2 Press OK.

3D Colour management

When **3D Colour management** *is selected it allows the 'Base colour adjustment' feature to become available.*

1. In the **PICTURE** menu press ▼ to select **3D Colour management**.



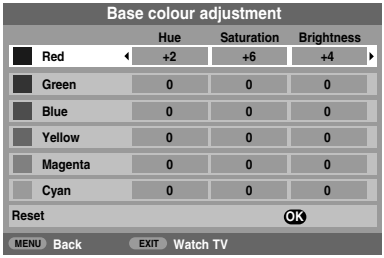
2. Press ◀ or ▶ to select **On** or **Off**.

Base colour adjustment

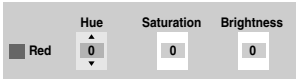
The **Base colour adjustment** *feature allows the adjustment of individual colours to suit personal preference. This can be useful when using an external source.*

1. In the **PICTURE** menu press ▼ to select **Base colour adjustment**, then press (OK).

2. Press ▲ or ▼ to select an option, then ▶ to adjust the settings.



3. Press ◀ or ▶ to select **Hue**, **Saturation** or **Brightness**, then press ▲ or ▼ to adjust the settings as required.

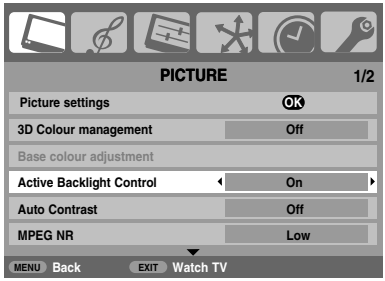


To return to the original factory settings select **Reset** and press (OK).

Active Backlight Control

When **Active Backlight Control** *is activated it will automatically optimise the backlighting levels for dark scenes.*

1. In the **PICTURE** menu press ▼ to select **Active Backlight Control**.



2. Press ◀ or ▶ to select **On** or **Off**.

Auto Contrast

When **Auto Contrast** *is activated it will automatically optimise the backlighting levels to suit ambient room light conditions.*

1. In the **PICTURE** menu press ▼ to select **Auto Contrast**.

2. Press ◀ or ▶ to select **On** or **Off**.

MPEG NR – Noise Reduction

When watching a DVD the compression may cause some words or picture elements to become distorted or pixelated. Using the **MPEG NR** *feature reduces this effect by smoothing out the edges.*

1. Select **MPEG NR** from the **PICTURE** menu. Use ◀ or ▶ to select a setting to suit your preference.

DNR – Digital Noise Reduction

DNR *enables you to 'soften' the screen representation of a weak signal to reduce the noise effect.*

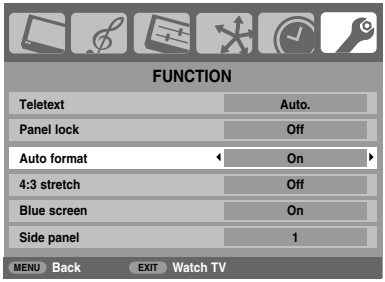
1. Select **DNR** from the **PICTURE** menu.

2. Use ◀ or ▶ to select between **Low**, **Middle**, **High**, **Auto.** and **Off**. The differences may not always be noticeable (for the best result use lower settings as picture quality can be lost if the setting is too high).

Automatic format (Widescreen)

When this television receives a true Widescreen picture and **Auto format** *is* **On***, it will automatically be displayed in Widescreen format, irrespective of the television's previous setting.*

1. Press (MENU) and ◀ or ▶ to select the **FUNCTION** menu.



2. Press ▼ to highlight **Auto format**, then ◀ or ▶ to select **On** or **Off**.

4:3 stretch

When **4:3 stretch** *is activated the size switching system changes 4:3 programs into a full screen picture.*

1. In the **FUNCTION** menu press ▼ to highlight **4:3 stretch**.

2. Press ◀ or ▶ to select **On** or **Off**.

Blue screen

When **Blue screen** *is selected the screen will turn blue and the sound will be muted when no signal is received.*

1. In the **FUNCTION** menu press ▼ to highlight **Blue screen**.

2. Press ◀ or ▶ to select **On** or **Off**.

Side panel adjustment

The **Side panel** *feature lightens or darkens the band each side of the screen when in 4:3 or 14:9 format. This helps prevent image retention of the band and can also make viewing in bright or dark conditions more comfortable.*

1. In the **FUNCTION** menu press ▼ until **Side panel** is highlighted.

2. Press ◀ or ▶ to adjust.

Picture still

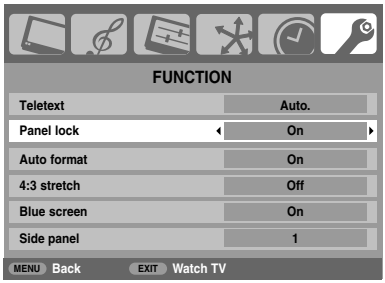
This feature is used to hold a still image on the screen.

1. Press (▼) to hold an image on the screen, press (▼) again to cancel.

Panel lock

Panel lock *disables the buttons on the television. All buttons on the remote control can still be used.*

1 From the **FUNCTION** menu select **Panel lock** and choose **On** or **Off** using ◀ or ▶.



When **Panel lock** is **On**, a reminder will appear when the buttons on the television are pressed. **If the standby button is pressed the television will switch off and can only be brought out of standby by using the remote control.**

The Timer

The television can be set to turn itself **On** *or* **Off** *after a certain time.*

1 Press (MENU) and ◀ or ▶ to select the **TIMER** menu.

2 Press ▼ to select **On timer** or **Sleep timer**. Use the number buttons to set the required time. For example, to switch the television off in one and a half hours enter 01:30, or press ▶/◀ to increase/decrease in steps of 10 minutes.

3 If setting the Sleep timer, press (EXIT) to finish. If setting the **On timer**, press ▼ to select **On timer Position**, enter the programme position number required, then press ⏻ to put the television into Standby. The GREEN On timer indicator on the front of the television will now be lit.

Any equipment connected with SCART leads must also be put into Standby to prevent them from being displayed when the timer switches on.

Once the **On timer** has been set the television can be switched on at any time by pressing ⏻. The GREEN On timer indicator will remain on until the set time period as passed when the television will go to the chosen channel. This feature can help to avoid missing favourite programmes.

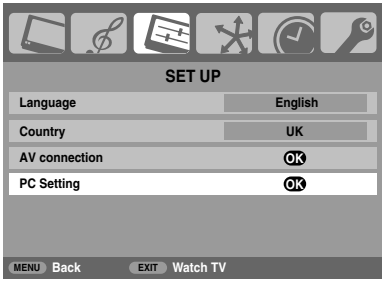
4 To cancel the **On timer**/**Sleep timer**, enter zero in above setting.

PC settings – picture position, clock phase, sampling clock, reset

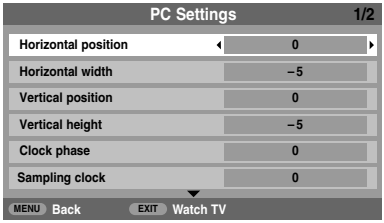
Picture position

Connect the PC (as shown in the 'Connecting a PC' section) and ensure that a picture is showing on the television screen. The picture position may now be adjusted to suit personal preference.

1. Press ⊕ to select **PC**, then select **PC Setting** from the **SET UP** menu.



2. Press (OK). Press ▲ and ▼ to select an option, then ◀ or ▶ to adjust the settings.



Clock phase

The **Clock phase** *matches the PC signal with the LCD display. Adjusting this can clear horizontal stripes and picture blur.*

1. In the **SET UP** menu press ▼ until **PC Setting** is highlighted.
2. Press (OK) to select, then ▼ to highlight **Clock phase**.
3. Use ◀ or ▶ to adjust until the picture clears.

Sampling clock

Adjusting the **Sampling clock** *alters the number of pulses per scan, this will clear vertical lines on the screen.*

1. In the **SET UP** menu press ▼ until **PC Setting** is highlighted.
2. Press (OK) to select, then ▼ to highlight **Sampling clock**.
3. Use ◀ or ▶ to adjust until the picture clears.

Reset

To return to the original factory settings.

1. In the **SET UP** menu press ▼ until **PC Setting** is highlighted.
2. Press (OK) to select, then ▼ to highlight **Reset**.
3. Press (OK).

NOTE: When a PC is connected using HDMI none of these functions will be available.

Input selection and AV connections

Defining the INPUT and OUTPUT sockets so that the television recognises connected equipment. See page 8 for a clear view of the back connection recommendations.

Most media recorders and decoders send a signal through the SCART lead to switch the television to the correct *Input* socket.

Alternatively press the external source selection button ⊕ until the picture from connected equipment is shown.

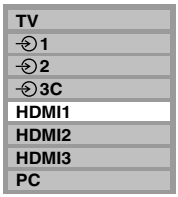
This button must be used to view equipment connected using the COMPONENT VIDEO INPUT (**EXT3**).

An **S** in the display e.g. ⊕**2S** (**EXT 2S**), indicates the input is set for an S-Video signal.

Input selection

Use the Input Selection if the television does not switch over automatically.

1 At any time by pressing ⊕ a list will appear on screen showing all stored programmes and external equipment. Use ▲ and ▼ to highlight and OK to select.



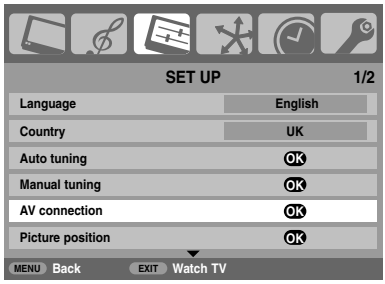
HDMI™ displays equipment connected to *Input HDMI* on the back of the television.

PC displays a computer connected to *Input RGB/PC* on the back of the television.

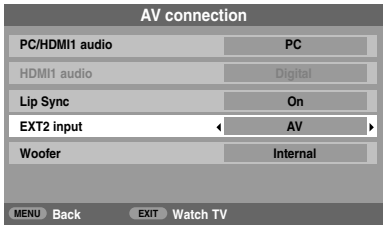
INPUT signal selection

*This specifies the type of signal going into SCART 2 (**EXT2**) on the back of the television. Please refer to the manufacturers instructions for the connected equipment.*

1 In the **SET UP** menu press ▼ until **AV connection** is highlighted, then press OK.



2 With ◀ or ▶ select either **AV** or **S-VIDEO** as the required ***input*** for **EXT2**.

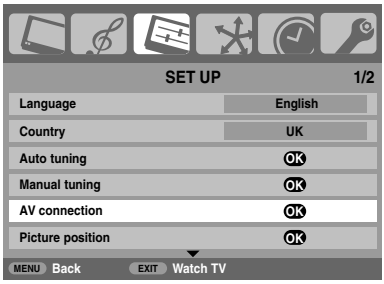


If the colour is missing try the alternative setting.

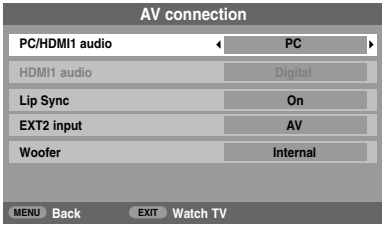
PC audio

In order to receive sound from a connected PC, plug the audio cable into the back of the television (as shown in 'Connecting a computer' section), then use the **PC/HDMI1 audio** *settings.*

1 In the **SET UP** menu press ▼ until **AV connection** is highlighted, then press (OK).



2 Highlight **PC**/**HDMI1 audio** then use ▶ to select the **PC** option.



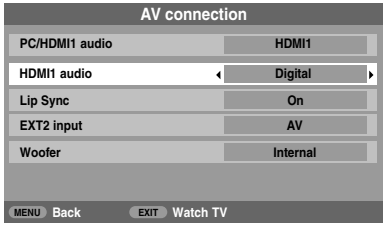
NOTE: Selecting the **PC** option will force HDMI into digital audio.

HDMI1 audio

If the connected HDMI source does not support digital audio, plug the audio cable into **PC/HDMI1 (AUDIO)** *on the back of the television (as shown in the 'Connecting an HDMI™ or DVI device to the HDMI input' section), then use the* **HDMI1 audio** *settings.*

1 In the **AV connection** menu press ▼ to highlight **PC**/**HDMI1 audio** and using ▶ select **HDMI1**.

2 Then highlight **HDMI1 audio** and using ◀ or ▶ select **Auto.**, **Digital** or **Analogue**.



If the sound is missing select an alternative setting.

NOTE: HDMI1 supports digital and analogue sound, HDMI2 and HDMI3 are digital sound only.

Certain formats of DVD disk may not output from this TV (32/44.1/48kHz and 16/20/24 bits are acceptable).

Lip Sync Latency

Lip Sync *can synchronize the sound and picture. This feature is only available when equipment compatible with Lip Sync is connected via HDMI.*

NOTE: Disconnect the HDMI cable before changing the **Lip Sync** setting. If the HDMI cable is connected, a message will appear.

1 In the **AV connection** menu press ▼ to highlight **Lip Sync**.

2 Using ◀ or ▶ select **On** or **Off**.

HDMI, the HDMI logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing, LLC.

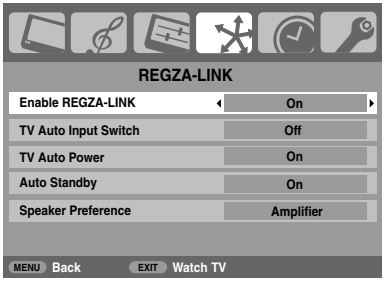
Using REGZA-LINK

This is a new feature that uses CEC technology and allows you to control Toshiba REGZA-LINK compatible devices from the television remote control via HDMI connection (page 10).

When the **Enable REGZA-LINK** item in the **REGZA-LINK** menu is set to **On**, individual functions also set to **On** will be activated.

Enable REGZA-LINK

1. Press MENU and ◀ or ▶ to select the **REGZA-LINK** menu.
2. Press ▼ to highlight **Enable REGZA-LINK**, then ◀ or ▶ to select **On**.



NOTE: If you set **Enable REGZA-LINK** to **Off**, the all other items will be grayed out.

TV Auto Input Switch

TV Auto Input Switch *allows the television to automatically switch to the appropriate HDMI input when a connected HDMI device starts playing video or audio.*

1. In the **REGZA-LINK** menu press ▼ to highlight **TV Auto Input Switch**.
2. Press ◀ or ▶ to select **On** or **Off**.

TV Auto Power

The **TV Auto Power** *setting allows the television to be automatically switched on or off if a REGZA-LINK device is turned on or off.*

1. In the **REGZA-LINK** menu press ▼ to highlight **TV Auto Power**.
2. Press ◀ or ▶ to select **On** or **Off**.

Auto Standby

When the **Auto Standby** *is enabled the television when switched off will automatically switch off (standby mode) all connected REGZA-LINK equipment.*

1. In the **REGZA-LINK** menu press ▼ to highlight **Auto Standby**.
2. Press ◀ or ▶ to select **On** or **Off**.

Speaker Preference

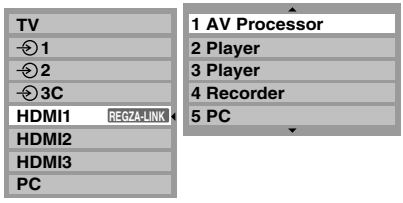
This feature allows the audio output preference to be set to the TV speakers or AV amplifier speakers. The AV Amplifier option lets the televisions remote control adjust or mute the volume of the audio.

1. In the **REGZA-LINK** menu press ▼ to highlight **Speaker Preference**.
2. Press ◀ or ▶ to select **TV Speakers**, **Amplifier** or **Off**.

REGZA-LINK input source selection

If a REGZA-LINK device with HDMI switching capability (e.g. AV amplifier) is connected to the HDMI input, you can select another REGZA-LINK device that is connected to the master HDMI device on the input source list.

1. Press ⏀ and a list will appear on screen showing modes and all stored external equipment.
2. Press ▼ to select the desired input source with REGZA-LINK icon.
3. Press ▶ and a second selection screen will appear showing all connected REGZA-LINK equipment.



4. Press ▲ or ▼ to select the desired input source, and then press OK.

NOTE:
- These functions depend on the device connected.
- If you select the REGZA-LINK input source from the popup window, some REGZA-LINK devices may automatically turn on.
- When the television is switched on it will take a few minutes for the REGZA-LINK icon to appear in the list, when an HDMI cable is removed it will take a few minutes for the icon to disappear.
- If the HDMI cable from connected equipment is changed **Enable REGZA-LINK** in the REGZA-LINK setup menu may need to be reset to **On**.
- If you change HDMI lead to connect device or HDMI device setting, reset **Enable REGZA-LINK** item on the REGZA-LINK setup menu from **Off** to **On**.

REGZA-LINK playback device control

With REGZA-LINK mode on your televisions remote control, you can control the connected REGZA-LINK playback device you are watching.

To control the REGZA-LINK input source first select the equipment with REGZA-LINK input source selection, then switch the mode on the remote control to **REGZA-LINK** and press any buttons.

See page 6 for details on available remote control key functions.

NOTE: The available functions depend on the equipment connected. Not all the remote control keys may be available. Please refer to the operation manual for each piece of equipment connected.

REGZA-LINK one touch play

When connected equipment is switched on REGZA-LINK will automatically detect the television through the input selection. If the television is in standby it will be switched on automatically.

These functions enable or disable can set on the REGZA-LINK setup (see page 29).

NOTE:
- Even if the equipment is showing a menu the television may automatically show the input source.
- This feature depends on the connected equipment and television state.

REGZA-LINK system standby

If the television is turned off (standby mode), the television will send a message to turn off (standby mode) all of the REGZA-LINK devices connected to the television.

These functions enable or disable can set on the REGZA-LINK setup (see page 29).

NOTE: This feature depends on the connected equipment and television state.

REGZA-LINK system audio control

With your television's remote control, you can adjust or mute the sound volume of the speakers connected to the television via an AV amplifier. First, set the remote control mode switch to REGZA-LINK.

1. Set the **Speaker Preference** to **Amplifier** in the **REGZA-LINK** menu.
2. Confirm that a connected REGZA-LINK device (such as DVD player, etc) is selected for the AV amplifier input source.

NOTE:
- These functions depend on the device connected.
- When you turn on the AV amplifier, change its input source, or adjust the sound volume, the sound will be output from the AV amplifier's speakers even if **TV Speakers** has been selected. Turn the television off and on again to output the sound from the TV Speakers.
- This feature may not work if the AV amplifier is operated.

REGZA-LINK PC link

This feature automatically adjusts the suitable widescreen formats and picture preferences, when connected to a REGZA-LINK PC.

NOTE: This feature depends on the connected equipment state.

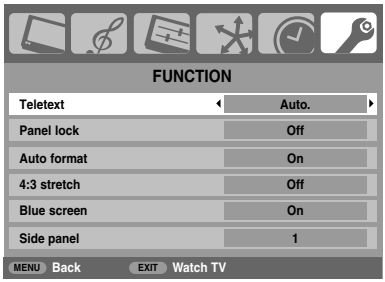
Text services

This television has a multi-page text memory, which takes a few moments to load. It offers two ***Modes*** of viewing text – **Auto.** will display **Fastext**, if available. **LIST** will store your four favourite pages.

Selecting modes

The text character set will be automatically chosen by the language setting in the ***SET UP*** *menu.*

1. Select **Teletext** from the **FUNCTION** menu.
2. With ◀ or ▶ choose **Auto.** or **LIST** then press (EXIT).



Text information

The TEXT button:

To view text services press **TEXT**. Press again to superimpose the text over a normal broadcast picture and again to return to normal viewing. Programmes cannot be changed until text is cancelled.

The first text page shown will be the *initial* page.

Any text page can be accessed by entering the 3 digit page number using the numbered buttons, pressing the coloured buttons or pressing **P**∧ to advance to the next page and **P**∨ to go back to the previous page.

NOTE: While viewing text services, the on-screen menu will not appear when you press (MENU).

Sub-pages

If there are sub-pages they will automatically load into memory without changing the page on screen.

To access the sub-pages press (≡◕) then use **P**∧ and **P**∨ to view them. A bar with numbers will appear on the side of the screen.

The sub-page you are viewing will be highlighted and, as the television loads any additional sub-pages the colour of the numbers will change, indicating that these pages have been loaded.

These sub-pages will remain available to view until another page is chosen or, in normal TV mode, the channel is changed.

Navigating pages using Auto.

If **Fastext** is available four coloured titles will appear at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control.

For further information on your particular text system(s), see the broadcast text index page or, consult your local Toshiba dealer.

Navigating pages using LIST

The four coloured choices at the bottom of the screen are numbers – 100, 200, 300 and 400, which have been programmed into the television's memory. To view these pages press the relevant coloured buttons.

To change these stored pages press the relevant coloured button and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Press (OK) to store. The bars at the bottom of the screen will flash white. **Whenever (OK) is pressed all four page numbers showing at the bottom will be stored and the previous ones will be lost.**

If (OK) is not pressed the selection will be forgotten when text is cancelled.

Other pages may be viewed by entering the 3 digit page number – but DO NOT press (OK) or these pages will be stored.

Control buttons

Below is a guide to the functions of the remote control text buttons.

To display the index/initial page:

Press to access the index/initial page. The one displayed is dependant on the broadcaster.

TEXT To display a page of text:

Press **TEXT** to display text. Press again to superimpose text over a normal picture. Press again to return to normal television viewing. Programmes cannot be changed until this has been done.

To access sub-pages:

For use with **P∧** and **P∨** to view sub-pages when available.

To reveal concealed text:

To discover the solutions on quiz and joke pages press the button.

To hold a wanted page:

At times it is convenient to hold a page of text. Press and will appear in the top left of the screen. The page will be held on screen until the button is pressed again.

To enlarge the text display size:

Press once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to normal size.

/ To select a page whilst viewing a normal picture:

Enter the page number then press /, a normal picture will be displayed. The television will indicate when the page is present by displaying the page number at the top of the screen. Press **TEXT** to view the page.

To display news flashes:
Select the news flash page for the chosen text service (see the index page of text service). Press /. The news flashes will be displayed as and when they are broadcast. Press / again to cancel the display.

The news flash page must be cancelled before changing programmes.

Remember to cancel text before changing channels - press the TEXT button twice.

Questions and Answers

Below are the answers to some of the most common queries.
For more information go to **www.toshiba.co.uk**

Q *Why is there no sound or picture?*

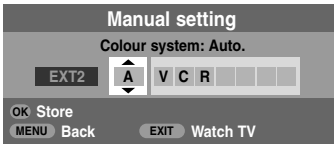
A Check the television is not in standby mode. Check the mains plug and all mains connections.

Q *There is a picture, but why is there little or no colour?*

A When using an **external** source, for instance, a poor quality video tape, if there is little or no colour, improvements may sometimes be achieved. The colour is factory set to **Auto.** to automatically display the best colour system.

To check that you have the best colour:

1 With the external source playing, select **Manual setting** from the **SET UP** menu.



2 With ▲ or ▼ choose between **Auto.**, **PAL**, **SECAM**, **NTSC 4.43** or **3.58**.

Q *Why doesn't the video/DVD being played show on screen?*

A Make sure the VCR or DVD player is connected to the television as shown on page 8, then select the correct input by pressing ⊖.

Q *Why is there a good video picture but no sound?*

A Check all lead connections.

Q *Why is there a picture but no sound?*

A Check the volume has not been turned down or that sound mute has not been selected.

Q *Why is the VCR/DVD picture in black and white?*

A Check the correct ***input*** has been chosen, **S-VIDEO** or **AV**. See **AV connections** on page 27.

Q *What else can cause a poor picture?*

A Interference or a weak signal. Try a different television station. **Manual fine tuning** may help.

1 Select the **Manual tuning** menu. Highlight the station and press OK, then press ▶ to select **Manual fine tuning**.

2 Using ▲ or ▼ adjust to get the best picture and sound. Press OK and then EXIT.

Q *Why don't the controls on the front of the television work?*

A Check that **Panel lock** is not **ON**.

Q *Why doesn't the remote control work?*

A Check the side switch on the remote control is in TV mode.
Check the batteries aren't dead or inserted incorrectly.

Q *Why is there a message permanently on the screen?*

A Remove it by pressing i+.

Q *Why are there vertical stripes on the screen when in PC mode?*

A The **Sampling clock** may need adjustment. Select **PC Setting** from the **SET UP** menu, highlight **Sampling clock** and adjust until the lines clear.

Q *Why are there horizontal stripes and/or blurred images on the screen when in PC mode?*

A The **Clock phase** may need adjustment. Select **PC Setting** from the **SET UP** menu, highlight **Clock phase** and adjust until the picture clears.

Q *Why are there problems with text?*

A Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check the aerial. Go to the *main index* page of the text service and look for the *User Guide*. This will explain the basic operation of text in some detail. If further information is needed on how to use text *see the text section*.

Q *Why are there no text sub-pages?*

A There are none broadcast or they have not yet loaded. Press the button to access.
(See text section).

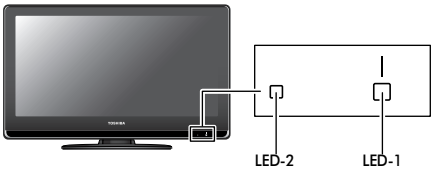
Q *Why are the four coloured text numbers visible but no text?*

A Text has been selected whilst viewing an external source i.e. DVD or VCR. No text will appear on screen or a box may appear stating no information is available. Select a broadcasting channel and press **TEXT** to access.

Q *Why are the LEDs on the front of the television flashing?*

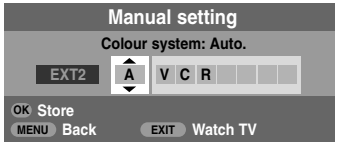
A Check the table below.

LED indication		Condition	Solution
LED-2	LED-1		
OFF	Green (Solid)	The TV is operatin properly.	–
OFF	Red (Solid)	Standby with Power-On	–
Green (Solid)	Red (Solid)	On timer	–
OFF	RED Blinks 0.5 sec cycle	Power protect detection.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
OFF	Red Blinks 1 sec cycle	Abnormal operation of BUS line.	
OFF	2 times flashing with 2 sec interval	Abnormal operation (Initialization error).	



Q *Why are the colours wrong when an NTSC source is played?*

A Connect the source via a SCART lead and play.
Select **Manual setting** from the **SET UP** menu.



1. Set the Colour to **Auto.** and exit.
2. Go to the **Picture settings** menu and adjust the tint.

Q *Why don't the devices connected via HDMI operate properly?*

A Make sure to use cables with the HDMI logo HDMI (see page 9).

Some early HDMI equipment may not work properly with the latest HDMI TV products, due to new standard adoption. Try **Lip Sync** setting to **Off**.

Q *Why don't the REGZA-LINK devices work?*

A When the connected REGZA-LINK device does not work correctly after you have changed settings of the device, turn off your television and unplug the power cord, then plug and turn on again.
Unplug the HDMI cable of the REGZA-LINK device and lead again.

Q *Why is the REGZA-LINK logo still showing when the equipment has been disconnected?*

A If the REGZA-LINK is disconnected the logo will disappear after approximately one minute.

Notes

For your own records

Cleaning the screen and cabinet...

*Turn off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.*

Disposal...

The following information is only for EU-member states:

Disposal of products

The crossed out wheeled dust bin symbol indicates that products must be collected and disposed of separately from household waste. Integrated batteries and accumulators can be disposed of with the product. They will be separated at the recycling centres.
The black bar indicates that the product was placed on the market after August 13, 2005.
By participating in separate collection of products and batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Disposal of batteries and/or accumulators

The crossed out wheeled dust bin symbol indicates that batteries and/or accumulators must be collected and disposed of separately from household waste.
If the battery or accumulator contains more than the specified values of lead (Pb), mercury (Hg), and/or cadmium (Cd) defined in the Battery Directive (2006/66/EC), then the chemical symbols for lead (Pb), mercury (Hg) and/or cadmium (Cd) will appear below the crossed out wheeled dust bin symbol.
By participating in separate collection of batteries, you will help to assure the proper disposal of products and batteries and thus help to prevent potential negative consequences for the environment and human health.
For more detailed information about the collection and recycling programmes available in your country, please contact your local city office or the shop where you purchased the product.

Information

Before connecting any external equipment, turn off all main power switches. If there is no switch remove the mains plug from the wall socket.

Signal information for Mini D-sub 15 pin connector

Pin No.	Signal name	Pin No.	Signal name	Pin No.	Signal name
1	R	6	Ground	11	NC
2	G	7	Ground	12	NC
3	B	8	Ground	13	H-sync
4	NC*	9	NC	14	V-sync
5	NC	10	Ground	15	NC

* NC = not connected

Acceptable PC signals through PC terminal

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
		72.809Hz	37.861kHz	31.500MHz
		75.000Hz	37.500kHz	31.500MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
		72.188Hz	48.077kHz	50.000MHz
		75.000Hz	46.875kHz	49.500MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
		70.069Hz	56.476kHz	75.000MHz
		75.029Hz	60.023kHz	78.750MHz
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz
		59.870Hz	47.776kHz	79.500MHz
		74.893Hz	60.289kHz	102.250MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz
		75.025Hz	79.976kHz	135.000MHz

Acceptable video or PC signals through HDMI terminals

Format	Resolution	V. Frequency	H. Frequency	Pixel Clock Frequency
480i	720 × 480i	59.940/60.000Hz	15.734/15.750kHz	27.000/27.027MHz
576i	720 × 576i	50.000Hz	15.625kHz	27.000MHz
480p	720 × 480p	59.940/60.000Hz	31.469/31.500kHz	27.000/27.027MHz
576p	720 × 576p	50.000Hz	31.250kHz	27.000MHz
1080i	1920 × 1080i	59.940/60.000Hz	33.716/33.750kHz	74.176/74.250MHz
1080i	1920 × 1080i	50.000Hz	28.125kHz	74.250MHz
720p	1280 × 720p	59.940/60.000Hz	44.955/45.000kHz	74.176/74.250MHz
720p	1280 × 720p	50.000Hz	37.500kHz	74.250MHz
1080p	1920 × 1080p	59.940/60.000Hz	67.500kHz	148.500MHz
1080p	1920 × 1080p	50.000Hz	56.250kHz	148.500MHz
1080p	1920 × 1080p	24.000Hz	27.000kHz	74.250MHz
VGA	640 × 480	59.940Hz	31.469kHz	25.175MHz
		72.809Hz	37.861kHz	31.500MHz
		75.000Hz	37.500kHz	31.500MHz
SVGA	800 × 600	60.317Hz	37.879kHz	40.000MHz
		72.188Hz	48.077kHz	50.000MHz
		75.000Hz	46.875kHz	49.500MHz
XGA	1024 × 768	60.004Hz	48.363kHz	65.000MHz
		70.069Hz	56.476kHz	75.000MHz
		75.029Hz	60.023kHz	78.750MHz
WXGA	1280 × 768	59.995Hz	47.396kHz	68.250MHz
		59.870Hz	47.776kHz	79.500MHz
		74.893Hz	60.289kHz	102.250MHz
	1360 × 768	60.015Hz	47.712kHz	85.500MHz
SXGA	1280 × 1024	60.020Hz	63.981kHz	108.000MHz
		75.025Hz	79.976kHz	135.000MHz

Specifications and accessories

Broadcast systems/channels

PAL-I	UHF UK21-UK69
PAL-B/G	UHF E21-E69 VHF E2-E12, S1-S41
SECAM-L	UHF F21-F69 VHF F1-F10, B-Q
SECAM-D/K	UHF R21-R69 VHF R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin SCART	RGB, A/V
EXT2	Input	21-pin SCART	A/V, S-video
EXT3	Input	Phono jacks Phono jacks	Y, P_B/C_B, P_R/C_R Audio L + R
EXT3	Input (Side)	Phono jack Phono jacks	Video, S-video Audio L + R
HDMI 1/2	Input	HDMI™ (Audio LIP SYNC supported)	
HDMI3	Input (Side)	HDMI™ (Audio LIP SYNC supported)	
PC	Input	Mini D-sub 15-pin Analog RGB signal	
PC/HDMI1 Audio		3.5mm mini jack	Audio
Output to Active Super Woofer		Phono jack	
Fixed Audio Output		Phono jacks	Audio L + R

Stereo Nicam
2 carrier system

Visible Screen Size (approx.)

Model		
	32	84cm
	37	94cm
	42	107cm
	46	117cm
	52	132cm

Display 16:9

Sound output (at 10% distortion) Main 10W + 10W

Power consumption as specified in EN60107-1 : 1997

Model		
	32	165W
	37	171W
	42	202W
	46	265W
	52	305W

Standby (approx.)

Model		
	32	0.8W
	37	0.8W
	42	0.8W
	46	0.8W
	52	0.8W

Dimensions (approx.)

Model		
	32	57cm (H) 79cm (W) 25cm (D)
	37	63cm (H) 90cm (W) 25cm (D)
	42	69cm (H) 101cm (W) 26cm (D)
	46	75cm (H) 111cm (W) 31cm (D)
	52	84cm (H) 125cm (W) 33cm (D)

(Height dimension includes foot stand)

Weight (approx.)

Model		
	32	14.0kg
	37	17.5kg
	42	23.0kg
	46	27.5kg
	52	37.0kg

Headphone socket 3.5mm stereo

Operating condition Temperature 5°C - 35°C (41°F - 94°F)
Humidity 20 - 80% (non-condensing)

Accessories Remote control
2 batteries
(AAA, IEC R03 1.5V)
Clip
Cleaning cloth (to clean the cabinet and control panel)

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